

10/583,575



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chain nodes :
7 9 12
ring nodes :
1 2 3 4 5 11
chain bonds :
3-7 7-9 9-12
ring bonds :
1-2 1-5 1-11 2-3 2-11 3-4 3-11 4-5 4-11 5-11
exact/norm bonds :
1-2 1-5 1-11 2-3 2-11 3-4 3-7 3-11 4-5 4-11 5-11 7-9 9-12
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G1:C,Si,Ge

G2:O,S,N,P,As,Sb,Se,Te

G3:Cr,Mo,W

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 9:CLASS 11:Atom 12:Atom

L1 STRUCTURE UPLOADED

=> d his

(FILE 'HOME' ENTERED AT 11:06:01 ON 11 MAY 2009)

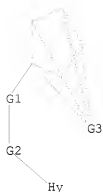
FILE 'REGISTRY' ENTERED AT 11:07:19 ON 11 MAY 2009

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C, Si, Ge

G2 O, S, N, P, As, Sb, Se, Te

G3 Cr, Mo, W

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 11:08:02 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 61481 TO ITERATE

100.0% PROCESSED 61481 ITERATIONS

18 ANSWERS

SEARCH TIME: 00.00.02

L2 18 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

185.88

186.32

FILE 'CAPLUS' ENTERED AT 11:08:12 ON 11 MAY 2009

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FILE COVERS 1907 - 11 May 2009 VOL 150 ISS 20

FILE LAST UPDATED: 8 May 2009 (20090508/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate

=> s l2

L3 8 L2

=> d 1-8 bib abs

L3 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2007:1463161 CAPLUS

DN 148:285296

TI Syntheses and spectra of chromium-titanium complexes bridged by carboxylate substituted cyclopentadienyl group: The structure of Cp2Ti(CH3){[OC(O)C5H4]Cr(NO)2Cl}

AU Wang, Yu-Pin; Pang, Su-Ru; Cheng, Hsiu-Yao; Lin, Tso-Shen; Wang, Yu; Lee, Gene-Hsiang

CS Department of Chemistry, Tunghai University, Taichung, Taichung, Taiwan

SO Journal of Organometallic Chemistry (2008), 693(2), 329-337

CODEN: JORCAI; ISSN: 0022-328X

PB Elsevier Ltd.

DT Journal

LA English

OS CASREACT 148:285296

AB Mono-demethylation of Cp2Ti(CH3)2 in dichloromethane with 1 M equivalent of [η5-(C5H4COOH)]Cr(CO)2NO (5), [η5-(C5H4COOH)]Cr(NO)2X (X = Cl 6, X = I 7) and [η5-(C5H4COOH)]W(CO)3CH3 (8) gives Cp2Ti(CH3){[OC(O)C5H4]Cr(CO)2NO} (9), Cp2Ti(CH3){[OC(O)C5H4]Cr(NO)2Cl} (10), Cp2Ti(CH3){[OC(O)C5H4]Cr(NO)2I} (11), and Cp2Ti(CH3){[OC(O)C5H4]W(CO)3CH3} (12), resp. The structure of 10 has been solved by x-ray diffraction studies. One of the nitrosyl groups is located at the site away from the exocyclic carbonyl carbon of the Cp(Cr) ring with twist angle of 178.1°. All the data reveals that Cp2Ti(CH3)- is a strong electron-donating group. The opposite correlation was observed on the chemical shift assignments of C(2)-C(5) in compds. 5-12, using HetCOR NMR spectroscopy, as compared with the NMR data of their ferrocene analogs. The electron d. distribution in the cyclopentadienyl ring is discussed on the basis of 13C NMR data and those of 10 are compared with the calcs. via d. functional B3LYP correlation-exchange method.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2001:527829 CAPLUS

DN 135:253344

TI Photoinduced DNA Cleavage by Cyclopentadienyl Metal Complexes Conjugated to DNA Recognition Elements

AU Hurley, Allison L.; Maddox, Mitchell P., III; Scott, Tricia L.; Flood, Mark R.; Mohler, Debra L.

CS Department of Chemistry, Emory University, Atlanta, GA, 30322, USA

SO Organic Letters (2001), 3(17), 2761-2764

CODEN: ORLEF7; ISSN: 1523-7060

PB American Chemical Society

DT Journal

LA English

OS CASREACT 135:253344

AB DNA recognition elements have been attached to CpW(CO)3CH3 and CpW(CO)3Ph, which produce Me and Ph radicals that cleave DNA upon photolysis. The inclusion of binding moieties in 3 increases the efficiency but not the

selectivity of strand scission over that seen in the simple unfunctionalized complex, while 11 cleaves preferentially at T sites within AT-rich tracts.

RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2000:556554 CAPLUS

DN 134:38379

TI Organometallic Photonucleases: Synthesis and DNA-Cleavage Studies of Cyclopentadienyl Metal-Substituted Dendrimers Designed To Increase Double-Strand Scission

AU Hurley, Allison L.; Mohler, Debra L.

CS Department of Chemistry, Emory University, Atlanta, GA, 30322, USA

SO Organic Letters (2000), 2(18), 2745-2748

CODEN: ORLEF7; ISSN: 1523-7060

PB American Chemical Society

DT Journal

LA English

OS CASREACT 134:38379

AB A series of metal complex-substituted polyamine dendrimers have been synthesized and examined for their ability to cleave plasmid DNA in a double-stranded manner. While photolysis of the dimetallic spermine derivative and the tetrametallic DAB-Am-4 complex led to double-strand scission, in the larger DAB-Am-8 and DAB-Am-16 systems, DNA aggregation/precipitation was the predominant competing process observed

RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1997:383367 CAPLUS

DN 127:121814

OREF 127:23501a,23504a

TI The synthesis and characterization of Group IV metal-chromium complexes bridged by an OCH2C5H4 group. The molecular structure of Cp2TiCl[(OCH2C5H4)Cr(CO)2(NO)]

AU Jiang, Ming-Ke; Lin, Chu-Chieh; Gau, Han-Mou

CS Department of Chemistry, National Chung-Hsing University, Taichung, Taiwan

SO Journal of Organometallic Chemistry (1997), 539(1-2), 155-161

CODEN: JORCAI; ISSN: 0022-328X

PB Elsevier

DT Journal

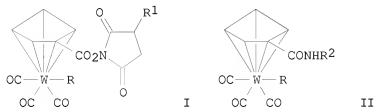
LA English

AB The series of complexes Cp2TiY[(μ-OCH2C5H4)Cr(CO)2(NO)] (Y = Cl (1), Br (2), or CH3 (3)) and Cp2ZrY[(μ-OCH2C5H4)Cr(CO)2(NO)] (Y = CH2Ph (4) or (μ-OCH2C5H4)Cr(CO)2(NO) (5)) were prepared from the reactions of (HOCH2C5H4)Cr(CO)2(NO) with suitable Group IV metallocene derivs. The IR spectra of complexes 1-5 show that the ν(CO) and ν(NO) shift to lower frequencies relative to the values for (HOCH2C5H4)Cr(CO)2(NO). This observation indicates more π-backbonding from the chromium metal center to the two CO and the NO ligands upon complexation of (OCH2C5H4)Cr(CO)2(NO) to the early metal. Complex 1 crystallizes in the monoclinic P21/n space group with cell parameters a = 11.274(2) Å, b = 13.135(3) Å, c = 13.091(3) Å, β = 105.46(3)°, z = 4, R = 0.045, Rw = 0.054 and Gof = 1.23. The slightly long C-O and N-O distances, the considerably weak Ti-O bond and the upfield shift of the 1H and 13C chemical shifts of C5H4 group also support the argument of net electron flow from OCH2 group to C5H4 group in which the cumulated electron d. would pass to the chromium metal center and then π-backbonding to the CO and NO ligands for the observation of lower energies of ν(CO) and ν(NO) bands.

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1995:993310 CAPLUS
 DN 124:146389
 OREF 124:27237a,27240a
 TI Covalent and Selective Labeling of Proteins with Heavy Metals. Synthesis, x-ray Structure, and Reactivity Studies of N-Succinimidyl and N-Sulfosuccinimidyl Ester Organotungsten Complexes
 AU Gorfti, Abdelaziz; Salmain, Michele; Jaouen, Gerard; McGlinchey, Michael J.; Bennouna, Abdelaziz; Mousser, Abdelhamid
 CS Ecole Nationale Supérieure de Chimie de Paris, CNRS, Paris, F-75231, Fr.
 SO Organometallics (1996), 15(1), 142-51
 CODEN: ORGND7; ISSN: 0276-7333
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 124:146389
 GI



AB New functionally substituted η^5 -cyclopentadienyl and 2-oxaallyl (η^1 -enolate) W complexes bearing an N-succinimidyl or an N-sulfosuccinimidyl ester were prepared and fully characterized. The mol. structures of [η^5 -((succinimidooxy)carbonyl)cyclopentadienyl]methyltri carbonyltungsten(II) (2) and [η^5 -((succinimidooxy)carbonyl)cyclopentadienyl]iodotricarbonyltungsten(II) (5) were solved by x-ray crystallog. The reactivity of these activated esters, I (R = Me, I; R1 = H, SO₃⁻) toward a range of amines and amino acids was studied. While the N-succinimidyl ester enolate is unreactive, N-succinimidyl-substituted cyclopentadienyl complexes were quite reactive, leading to the expected stable organometallic amides II (R = Me, I; R₂ = CH₂Ph, CH₂CH₂CO₂H). Bovine serum albumin (BSA), a 66 kDa mol. mass globular protein, could be labeled with fair yields, and conjugates were characterized by IR spectroscopy of the CO ligands. Organotungsten N-succinimidyl esters thus appear as promising reagents for the labeling of proteins with heavy metals.

L3 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1995:643155 CAPLUS
 DN 123:169812
 OREF 123:30334h,30335a
 TI Comparative Study of the Structures and Reactivity of the π -Cyclopentadienyl-Bonded and Metal-Bonded Succinimidyl Ester Complexes (Metal = Mo, Fe): X-ray Molecular Structures of [(η^5 -C₅H₄COONS)Mo(CO)₃Me] and [(η^5 -C₅H₅)Mo(CO)₃(η^1 -CH₂COONS)] (-NS = -N-Succinimidyl)
 AU El Moutassim, Bouchra; Elamouri, Hani; Vaissermann, Jacqueline; Jaouen, Gerard
 CS Ecole Nationale Supérieure de Chimie de Paris, Paris, 75231, Fr.
 SO Organometallics (1995), 14(7), 3296-302

CODEN: ORGND7; ISSN: 0276-7333

PB American Chemical Society

DT Journal

LA English

OS CASREACT 123:169812

AB The activated ester compds. $[(\eta^5\text{-C}_5\text{H}_4\text{COONS})\text{Mo}(\text{CO})_3\text{Me}]$ (5) and $[(\eta^5\text{-C}_5\text{H}_4\text{COONS})\text{Fe}(\text{CO})_2\text{Me}]$ (6) were obtained by treatment of the novel organometallic carboxylic acid complexes $[(\eta^5\text{-C}_5\text{H}_4\text{COOH})\text{Mo}(\text{CO})_3\text{Me}]$ (2) and $[(\eta^5\text{-C}_5\text{H}_4\text{COOH})\text{Fe}(\text{CO})_2\text{Me}]$ (4) with N-hydroxysuccinimide in THF in the presence of DCC (dicyclohexylcarbodiimide) or with DSC (disuccinimidyl carbonate) in CH₃CN in the presence of pyridine. These activated ester complexes were identified spectroscopically, and in addition, the x-ray mol. structure of 5 was determined. Compound 5 crystallizes in the triclinic space group P-1: $a = 8.684(4) \text{ \AA}$, $b = 12.764(8) \text{ \AA}$, $c = 16.522(10) \text{ \AA}$, $\alpha = 65.13(4)^\circ$, $\beta = 72.52(4)^\circ$, $\gamma = 71.34(4)^\circ$, $V = 1544.6 \text{ \AA}^3$, $Z = 4$. Similarly, the metal-activated ester complex $[(\eta^5\text{-C}_5\text{H}_5)\text{Mo}(\text{CO})_3(\eta^1\text{-CH}_2\text{COONS})]$ (7) was obtained by treatment of the dimer $[\text{Cp}_2\text{Mo}_2(\text{CO})_6]$ with Na/Hg followed by addition of 2 equiv of ClCH₂COONS in THF; in this compound the ester unit is bonded directly to the metal center rather than to the π -bonded cyclopentadienyl. Complex 7 was characterized by spectroscopic methods, and its mol. structure was ascertained by x-ray crystallog. which showed that it belongs to the well-known carbon-bound molybdenum 2-oxaalkyl (η^1 -enolate) category. Complex 7 crystallizes in the monoclinic space group C2/c: $a = 19.484(2) \text{ \AA}$, $b = 11.393(2) \text{ \AA}$, $c = 13.694(2) \text{ \AA}$, $\beta = 98.91(2)^\circ$, $V = 3000 \text{ \AA}^3$, $Z = 8$. The reactivity of π -bonded activated ester complexes 5 and 6 with I_2SiMe_3 gave resp. the iodo derivs. $[(\eta^5\text{-C}_5\text{H}_4\text{COONS})\text{Mo}(\text{CO})_3\text{I}]$ (9) and $[(\eta^5\text{-C}_5\text{H}_4\text{COONS})\text{Fe}(\text{CO})_2\text{I}]$ (10) as deep red microcryst. solids. The reactivity of the π -bonded activated ester complexes 5 and 6 and that of the metal-bonded activated ester 7 with amino esters are presented and discussed.

L3 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1995:88027 CAPLUS

DN 122:10189

OREF 122:2265a,2268a

TI Synthesis of the new organometallic carboxylic acid complexes $[(\eta^5\text{-C}_5\text{H}_4\text{COOH})\text{M}(\text{CO})_n\text{Me}]$ ($\text{M} = \text{Mo}$, $n = 3$; $\text{M} = \text{Fe}$, $n = 2$) and their potential as bioconjugates

AU Mouatassim, Bouchra El; ElAmouri, Hani; Salmain, Michele; Jaouen, Gerard

CS Ecole Nationale Supérieure de Chimie de Paris, 11 rue Pierre et Marie Curie, Paris, 75231/05, Fr.

SO Journal of Organometallic Chemistry (1994), 479(1-2), C18-C20

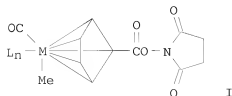
CODEN: JORCAI; ISSN: 0022-328X

DT Journal

LA English

OS CASREACT 122:10189

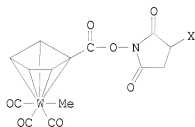
GI



AB The new compds. $[(\eta^5\text{-C}_5\text{H}_4\text{COOH})\text{M}(\text{CO})_n\text{Me}]$ [$\text{M} = \text{Mo}$, $n = 3$ (2); $\text{M} = \text{Fe}$, n

= 2 (5)] were synthesized in 61% and 63% yields, resp., and treated with N-hydroxysuccinimide (HONS) to yield the corresponding activated ester derivs. $[(\eta^5\text{-C}_5\text{H}_4\text{COONS})\text{M}(\text{CO})\text{nMe}]$ [I; M = Mo, n = 3 (3); M = Fe, n = 2, (6)]. The metal-activated ester complex, $[(\eta^5\text{-C}_5\text{H}_5)\text{Mo}(\text{CO})_3(\text{CH}_2\text{COONS})]$ (8) was obtained similarly, the ester unit being bonded directly to the metal rather than to the π -bonded cyclopentadienyl. The reactivity and potential of the above species as labeling agents for amino acids is discussed.

L3 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1994:435776 CAPLUS
 DN 121:35776
 OREF 121:6619a,6622a
 TI Novel N-succinimidyl and N-sulfosuccinimidyl organotungsten reagents for the labeling of biological systems
 AU Gorfti, Abdellaziz; Salmain, Michele; Jacuen, Gerard
 CS Ec. Natl. Super. Chim., Paris, F-75231, Fr.
 SO Journal of the Chemical Society, Chemical Communications (1994), (4), 433-4
 CODEN: JCCCAT; ISSN: 0022-4936
 DT Journal
 LA English
 OS CASREACT 121:35776
 GI



AB New organotungsten reagents, e.g., I (X = H or SO₃Na), bearing a N-succinimidyl or N-sulfosuccinimidyl ester function have been prepared, specifically coupled with amines, amino acids and proteins, and provide a promising basis for the preparation of heavy metal labeling agents designed for x-ray structural anal. of biol. systems.

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	26.00	212.32
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL



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12-17  13-14  14-15  15-16  16-17
exact/norm bonds :
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12-17  13-14  14-15  15-16  16-17

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G1:C,Si,Ge

G2:O,S,N,P,As,Sb,Se,Te

G3:Cr,Mo,W

G4:C,N

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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 9:CLASS 11:Atom 12:Atom 13:Atom
14:Atom 15:Atom 16:Atom 17:Atom

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L1 STRUCTURE UPLOADED

=> d his

(FILE 'HOME' ENTERED AT 11:13:59 ON 11 MAY 2009)

FILE 'REGISTRY' ENTERED AT 11:14:10 ON 11 MAY 2009

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C,Si,Ge
 G2 O,S,N,P,As,Sb,Se,Te
 G3 Cr,Mo,W
 G4 C,N

Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 3726 TO ITERATE
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100.0% PROCESSED 3726 ITERATIONS 9 ANSWERS
 SEARCH TIME: 00.00.01

L2 9 SEA SSS FUL L1

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COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 186.36 186.58
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FILE COVERS 1907 - 11 May 2009 VOL 150 ISS 20
 FILE LAST UPDATED: 8 May 2009 (20090508/ED)
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate

=> s 12

L3 2 L2

=> d 1-2 bib abs

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:564698 CAPLUS

DN 143:78676

TI Monocyclopentadienyl complexes for polymerization of olefins

IN Mihan, Shahram; Enders, Markus; Fernandez, Pablo

PA Basell Polyolefine G.m.b.H., Germany

SO PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

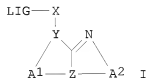
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PI	WO 2005058983	A2	20050630	WO 2004-EP14253	20041215
	WO 2005058983	A3	20050825		
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	DE 10360059	A1	20050721	DE 2003-10360059	20031219
	EP 1694719	A2	20060830	EP 2004-803875	20041215
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			
	JP 2007514685	T	20070607	JP 2006-544322	20041215
	US 20070213483	A1	20070913	US 2007-583575	20070507
PRAI	DE 2003-10360059	A	20031219		
	US 2004-543447P	P	20040210		
	WO 2004-EP14253	W	20041215		
OS	MARPAT 143:78676				
AB	Monocyclopentadienyl complexes in which the cyclopentadienyl system is substituted by at least one bridged donor, where the bridge contains at least one atom of group 14 of the Periodic Table and at least one atom of group 15 or 16 of the Periodic Table, and a catalyst system comprising at least one of the monocyclopentadienyl complexes, and also methods of preparing them, the use of the catalyst system for the polymerization or copolymn. of olefins and a process for preparing polyolefins by polymerization or copolymn. of olefins in the presence of the catalyst system and the preparation of the				

associated cyclopentadienyl system.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2002:157783 CAPLUS
DN 136:217186
TI Catalysts for olefin polymerization and metallocene having bicyclic
nitrogen ligands
IN Andell, Ove; Maaranen, Janne; Hoikka, Jouni; Vanne, Tiina; Rautio, Soile
PA Borealis Technology Oy, Finland; Campbell, Neil
SO PCT Int. Appl., 55 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002016374	A1	20020228	WO 2001-GB3757	20010821
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2001082297	A	20020304	AU 2001-82297	20010821
	EP 1311513	A1	20030521	EP 2001-960906	20010821
	EP 1311513	B1	20041006		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	AT 278697	T	20041015	AT 2001-960906	20010821
	US 20030225275	A1	20031204	US 2003-344855	20030528
	US 6815514	B2	20041109		
PRAI	GB 2000-20613	A	20000821		
	WO 2001-GB3757	W	20010821		
OS	MARPAT 136:217186				
GI					



AB The title catalysts have ligands I, where LIG = an η^5 -ligand substituted by a group R1 and a group (R)m; X = 1-3 atom bridge; Y = N or P atom; Z = a C, N or P atom; A1, A2 = optionally substituted heterocyclic ring of 5-12 atoms; R1 = H or other group; R = ring substituent which does not form a σ -bond to a metal η -bonded by the bicyclic ring; m = 0 or 1-3. Co-catalysts selected from aluminosiloxane or boron compds. are used with the metallocene catalysts. Thus, ethylene was polymerized using triazabicyclodec-ene-yl-1-dimethylsilyl dimethyl-tert-butyl dimethylsiloxy dimethylcyclopentadienyl chromium dichloride (preparation given) to give polyethylene having m.p. 134.3°.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	7.00	193.58
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.64	-1.64

STN INTERNATIONAL LOGOFF AT 11:16:02 ON 11 MAY 2009